Appl. No. 09/739,929 Preliminary Amendment dated January 23, 2004 Reply to Office Action of December 23, 2004

IN THE CLAIMS

Please enter the following amendments to the claims.

- (previously presented) A method of forming a Cu alloy, comprising:
 plating a layer of Cu over a substrate;
 forming a dopant layer comprising Al or Co over the Cu layer;
 driving dopants from the dopant layer into the Cu layer; and
 removing the dopant layer.
- 2. (original) The method of Claim 1, wherein the substrate comprises a diffusion barrier layer overlying a dielectric layer.
- 3. (original) The method of Claim 2, wherein the diffusion barrier layer comprises a material selected from the group consisting of Ta, TaN, TaSiN, W, WN, WSiN, Ti, TiN, TiSiN, and Co.
- 4. (original) The method of Claim 2, wherein forming the dopant layer comprises plating a layer of metal.
- 5. (cancelled)
- 6. (cancelled)
- 7. (currently amended) The method of Claim [[5,]] 1, wherein plating the layer of Cu comprises electroplating.

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- 8. (currently amended) The method of Claim [[5,]] 1, wherein plating the layer of Cu comprises an electroless deposition.
- 9. (currently amended) The method of Claim [[6,]] 1, wherein driving dopants into the Cu layer comprises elevating the temperature of the dopant layer and Cu layers to between 300°C and 400°C.

10-30 (cancelled)

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If there are any additional charges, please charge Deposit Account No. 02-2666.

Respectfully submitted,

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Date: 123, 2004

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